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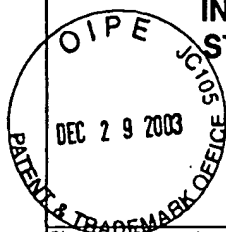
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 7

Applicant Number	10/661,939
Filing Date	September 12, 2003
First Named Inventor	Frank A. Skraly
Group Art Unit	1652
Examiner Name	I. Chowdhury
Attorney Docket Number	MBX 048

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
<i>W</i>		4,477,654		Holmes et al.	10-16-1984	
<i>W</i>		4,910,145		Holmes et al.	03-20-1990	
<i>W</i>		5,245,023		Peoples et al.	09-14-1993	
<i>W</i>		5,250,430		Peoples et al.	10-05-1993	
<i>W</i>		5,480,794		Peoples et al.	01-02-1996	
<i>W</i>		5,489,470		Noda	02-06-1996	
<i>W</i>		5,502,116		Noda	03-26-1996	
<i>W</i>		5,512,669		Peoples et al.	04-30-1996	
<i>W</i>		5,534,432		Peoples et al.	07-09-1996	
<i>W</i>		5,563,239		Hubbs et al.	10-08-1996	
<i>W</i>		6,329,183		Skraly et al.	12-11-2001	

### FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
<i>W</i>		PCT	WO 99/14313		Metabolix, Inc.	03-25-1999		
<i>W</i>		PCT	WO 00/43523		Metabolix, Inc.	07-27-2000		

Examine Signature	<i>Walter Chowdhury</i>	Date Considered	4/15/06
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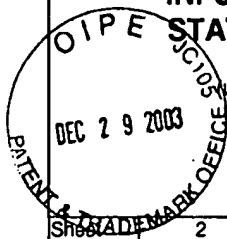
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Sheet 2 of 7			



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gr		AGOSTINI, et al., "Synthesis and Characterization of Poly-β-Hydroxybutyrate. I. Synthesis of Crystalline DL Poly-β-Hydroxybutyrate from DL-β-Butyrolactone," <i>Polym. Sci. Part A-1</i> 9:2775-87 (1971).	
gr		BRAUNEGG, et al., "Polyhydroxyalkanoates, biopolyesters from renewable resources: physiological and engineering aspects," <i>J. Biotech.</i> 65: 127-161 (1998).	
gr		BRUHN & MÜLLER, "Preparation and characterization of spray-dried poly(DL-lactide) Micro Spheres," <i>Proceed. Intern. Symp. Control. Rel. Bioact. Mater.</i> 18:668-69 (1991).	
gr		BYROM, "Miscellaneous Biomaterials" in Biomaterials (D. Byrom, ed.) pp. 333-59 (MacMillan Publishers, London 1991).	
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gr		CLARK & ROD, "Regulatory mutations that allow the growth of <i>Escherichia coli</i> on butanol as carbon source," <i>J. Mol. Evol.</i> 25: 151-158 (1987).	
gr		CONTI, et al., "Use of polylactic acid for the preparation of microparticulate drug delivery systems," <i>J. Microencapsulation</i> 9: 153-166 (1992).	
gr		DANIEL, et al., "Purification of 1,3-propanediol dehydrogenase from <i>Citrobacter freundii</i> and cloning, sequencing, and overexpression of the corresponding gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 177(8): 2151-2156 (1995).	
gr		DOI, "Microbial synthesis, physical properties, and biodegradability of polyhydroxyalkanoates," <i>Macromol. Symp.</i> 98: 585-599 (1995).	
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Examiner's Signature	<i>Stephen Chowdhury</i>	Date Considered	4/18/06
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		Group Art Unit	1652	
		Examiner Name	J. Chowdhury	
3	of	7	Attorney Docket Number	MBX 048



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JK		FUKUI, et al., "Biosynthesis of poly(3-hydroxybutyrate-co-3 hydroxyvalerate-co-3hydroxy-heptanoate) terpolymers by recombinant <i>Alcaligenes eutrophus</i> ," <i>Biotechnol. Lett.</i> 19: 1093-1097 (1997).	
JK		GERNGROSS & MARTIN, "Enzyme-catalyzed synthesis of poly[(R)-(-)-3-hydroxybutyrate]: formation of macroscopic granules <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 92:6279-83 (1995).	
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JK		HERRERO, et al., "Transposon vectors containing non-antibiotic resistance selection markers for cloning and stable chromosomal insertion of foreign genes in gram-negative bacteria," <i>J. Bacteriol.</i> 172(11): 6557-6567 (1990).	
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JK		HOLMES, "Biologically Produced (R)-3-Hydroxyalkanoate Polymers and Copolymers," in <u>Developments in Crystalline Polymers</u> (Bassett, ed.) Elsevier: London, pp. 1-65 (1988).	
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JK		JENKINS & NUNN, "Regulation of the <i>ato</i> operon by the <i>atoC</i> gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169(5): 2096-2102 (1987).	

Examiner's Signature	<i>Capital Chowdhury</i>	Date Considered	4/10/06
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		Filing Date	September 12, 2003	
		First Named Inventor	Frank A. Skraly	
		Group Art Unit	1652	
		Examiner Name	I. Chowdhury	
4	of	7	Attorney Docket Number	MBX 048



OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
gr		JENKINS & NUNN, "Genetic and molecular characterization of the genes involved in short-chain fatty acid degradation in <i>Escherichia coli</i> : the <i>ato</i> system," <i>J. Bacteriol.</i> 169: 42-52 (1987).	
gr		JESUDASON & MARCHESSUALT, "Synthetic poly[(R,S)-β-hydroxyalkanoates] with butyl and hexyl side chains," <i>Macromolecules</i> 27: 2595-2602 (1994).	
gr		JOHNSON & LIN, " <i>Klebsiella pneumoniae</i> 1,3-propanediol: NAD <sup>+</sup> oxidoreductase," <i>J. Bacteriol.</i> 169(5): 2050-2054 (1987).	
gr		JONES & TURNER, "Interrelationships between the enzymes of ethanolamine metabolism in <i>Escherichia coli</i> ," <i>J. Gen. Microbiol.</i> 130(Pt 2): 299-308 (1984).	
gr		JONES & TURNER, "A model for the common control of enzymes of ethanolamine catabolism in <i>Escherichia coli</i> ," <i>J. Gen. Microbiol.</i> 130(Pt 4): 849-860 (1984).	
gr		KEMNITZER, et al., "Preparation of predominantly syndiotactic poly(β-hydroxybutyrate) by the tributyltin methoxide catalyzed ring-opening polymerization of racemic β-butyrolactone," <i>Macromolecules</i> 26:1221-29 (1993).	
gr		KOOSHA, "Preparation and characterization of biodegradable polymeric drug carriers," Ph.D. Dissertation, 1989, Univ. Nottingham, UK., <i>Diss. Abstr. Int. B</i> 51:1206 (1990).	
gr		LAFFERTY, et al., "Microbial Production of Poly-β-hydroxybutyric acid" in <i>Biotechnology</i> (H.J. Rehm and G. Reed, eds.), Verlagsgesellschaft, Weinheim, vol. 66, pp. 135-76 (1988).	
gr		LE BORGNE & SPASSKY, "Stereoelective polymerization of β-butyrolactone," <i>Polymer</i> 30:2312-19 (1989).	
gr		LUZIER, "Materials derived from biomass/biodegradable materials," <i>Proc. Natl. Acad. Sci. USA</i> 89: 839-842 (1992).	

Examiner's Signature	<i>Daphne J. Smith</i>	Date Considered	9/10/00
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Application Number

10/661,939

Filing Date

September 12, 2003

First Named Inventor

Frank A. Skraly

Group Art Unit

1652

Examiner Name

I. Chowdhury

Attorney Docket Number

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JK		MADISON & HUISMAN, "Metabolic engineering of poly(3-hydroxyalkanoates): from DNA to plastic," <i>Microbiol. Mol. Biol. Rev.</i> 63(1): 21-53 (1999).	
JK		MATHIOWITZ & LANGER, "Polyanhydride microspheres as drug delivery systems" in <i>Microcapsules Nanopart. Med. Pharm.</i> (Donbrow, ed.) CRC Press: Boca Raton, Florida, pp. 99-123 (1992).	
JK		MAYSINGER, et al., "Microencapsulation and the grafting of genetically transformed cells as therapeutic strategies to rescue degenerating neurons of the CNS," <i>Rev. Neurosci.</i> 6:15-33 (1995).	
JK		MCMILLIN, et al., "Elastomers for biomedical applications," <i>Rubber Chemistry and Technology</i> 67:417-446 (1994).	
JK		MULLER & SEEBACH., "Poly(hydroxyalkanoates): a fifth class of physiologically important organic biopolymers," <i>Angew. Chem. Int. Ed. Engl.</i> 32: 477-502 (1993).	
JK		OGAWA, et al., "A new technique to efficiently entrap leuprolide acetate into microcapsules of poly lactic acid or copoly(lactic/glycolic) acid," <i>Chem. Pharm. Bull.</i> 36:1095-103 (1988).	
JK		POZNANSKAYA & KORSOVA, "Some physicochemical parameters of reactions catalyzed by glycerol dehydratase," <i>Biokhimiya</i> 48: 539-543 (1983).	
JK		SAITO, et al., "Microbial synthesis and properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)," <i>Polym. Int.</i> 39: 169 (1996).	
JK		SKRALY, et al., "Construction and characterization of a 1,3-propanediol operon," <i>Appl. Environ. Microbiol.</i> 64: 98-105 (1998).	
JK		SLATER, et al., "Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a recombinant <i>Escherichia coli</i> strain," <i>Appl. Environ. Microbiol.</i> 58: 1089-1094 (1992).	

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Signature

*I. Chowdhury*

Date Considered

*10/15/03*

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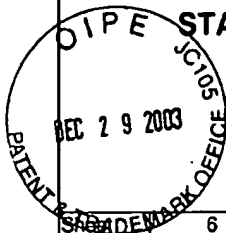


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JK		STEINBUCHER & VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiol. Lett.</i> 128:219-28 (1995).	
JK		STEINBUCHER & WIESE, "A <i>Pseudomonas</i> strain accumulating polyesters of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids," <i>Appl. Microbiol. Biotechnol.</i> 37:691-97 (1992).	
JK		STEINBUCHER, "Polyhydroxyalkanoic Acids" in <i>Biomaterials</i> (Byrom, ed.) MacMillan Publishers: London, pp. 123-213 (1991).	
JK		TANAHASHI & DOI, "Thermal properties and stereoregularity of poly(3-hydroxybutyrate) prepared from optically active β-butyrolactone with a zinc-based catalyst," <i>Macromolecules</i> 24:5732-33 (1991).	
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JK		TOTH, et al., "The <i>ald</i> gene, encoding a coenzyme A-acylating aldehyde dehydrogenase, distinguishes <i>Clostridium beijerinckii</i> and two other solvent-producing clostridia from <i>Clostridium acetobutylicum</i> ," <i>Appl. Environ. Microbiol.</i> 65(11): 4973-80 (1999).	
JK		VALENTIN, et al., "Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 40:710-16 (1994).	
JK		VALENTIN, et al., "Identification of 4-hydroxyvaleric acid as a constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 36: 507-514 (1992).	
JK		WILLIAMS & PEOPLES, "Biodegradable plastics from plants," <i>CHEMTECH</i> 26:38-44 (1996).	
JK		WILLIAMS & PEOPLES, "Making plastics green," <i>Chem. Br.</i> 33:29-32 (1997).	

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**First Named Inventor**

**Frank A. Skraly**

### Group Art Unit

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**Examiner Name**

Richard Lewis


Attorney Docket Number

MBX 048

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Ozhal Chun 

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